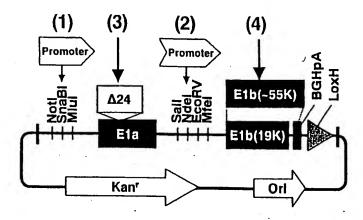
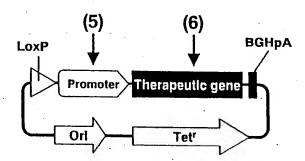
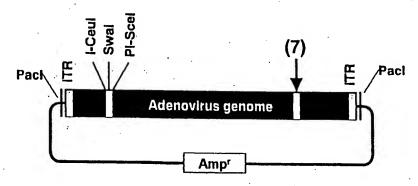
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A. Vector plasmid having a proliferation-regulating unit



B. Vector plasmid having a therapeutic gene-expressing unit



C. Adenoviral vector plasmid

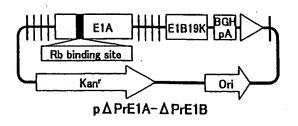
Fig. 1

		• 0					
DNA sequence	5'-TCAGTCGCATGCGCGCCGCTACGTAACGCGTTACCCGGTGAGTTCCTCAAGAGGC-3' Stuffer   Sphi	5'-GGACGTCCTAGGGTCGACGCCCATTTAACACGCCATGCAAG-3' Stuffer   Avii   Sali   Ad5 1635~1658 (AS)	5'-TCAGTCCCTAGGGTCGACCATATGGATATCCAATTGCGTGGGCTAATCTTGGTTACATCT-3' Stuffer   Avrii   Sali   Ndel   EcoRV   Mfel   Ad5 1684~1707	5'-GGACGTGGATCCGCGTCTCAGTTCTGGATACAGTTC-3' <pcr condition=""> Stuffer   BamHI   Ad5 2262~2285 (AS) Thermal denaturation 94°C, 30 seconds</pcr>	Annealing 57°C, 30 seconds	5'-GGACGTGAATTCATAACTTCGTATAATGTATGCTATATGAGGTAATTCAGAAGCCATAGAGCCCACCGCA-3' Stuffer   EcoRI   LoxH (AS)	
Primer name	S-E1A	AS-E1A	S-E1B19K	AS-E1B19K	S-BGHpA	AS-BGHpA	

Matter No.: 20381-002US1 Applicant(s): Kenichiro Kosai et al.

METHOD OF PREPARING A PROLIFERATION-REGULATED RECOMBINANT ADENOVIRAL VECTOR EFFICIENTLY AND

KIT FOR PREPARING THE SAME



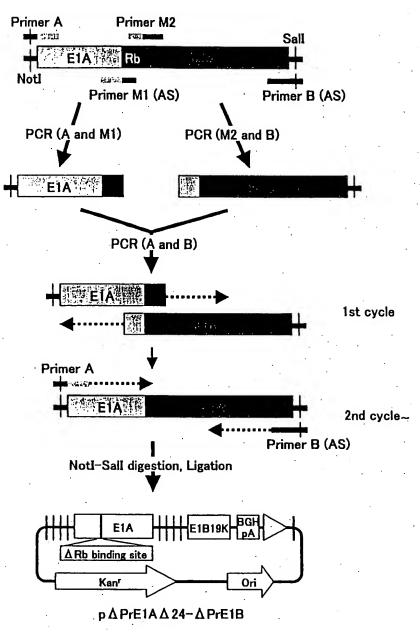
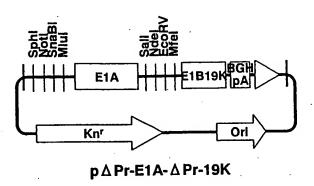
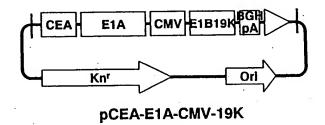


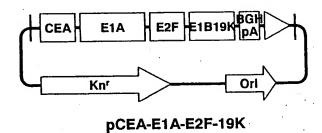
Fig. 3

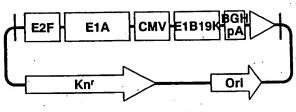
Primer name	DNA sequence	
S- <u>624</u>	ATCGATCC	
AS- <u>Δ</u> 24	Ad5 903~922   Ad5 947~956 5'-TCCTCGTCGTCACTGGGTGGATCGATCACC-3' Ad5 966~947 (AC)   Ad5 977~913 (AC)	<pcr condition=""></pcr>
	<del></del> ,.	Thermal denaturation 94°C, 30 seconds
S-E1B-2015	5' ATAAATGGAGGGAAGAAGC 3'	Annealing Elongation reaction 74°C, 60 seconds
		30 cycles
AS-E1B-4073	5' GGACGTGAATTCATAACTTCGTATAATGTATGCTATA	TCATAACTTCGTATAATGTATGCTATATGAGGTAATCTTGATCCAAATCCAAACAGAGTC 3'
	Stuffer   EcoRI   LoxH (AS)	Ad5 4050∼4073 (AS)
•		*

DNA sequence	5'-TCAGTCGTCGACCGTTGACATTGATTATTGAC-3' Stuffer   Sall   pRc/CMV 231~250	5'-GGACGTCAATTGGCTTGGGTCTCCCTATAGTG-3' Stuffer   MfeI   pRc/CMV 874~893 (AS)	5'-TCAGTCGCGCCGCATCATCCCACCTTCCCAGAG-3' Stuffer   Notl   CEAp (-424~-405)	5'-GGACGTACGCGTCCAGGTCTCTGCTGTCTGC-3' Stuffer   Miui	<- Condition	5'-CTGCAGGGTCAGGAGAA-3' Annealing 94°C, 30 seconds Annealing 57°C, 30 seconds Annealing	5'-GCGCTGGGCTGCTCAGG-3' Elongation reaction 74°C, 60 seconds 30 cycles
Primer name	S-CMVp	AS-CMVp	S-CEAp	AS-CEAp		S-0Cp	AS-OCp

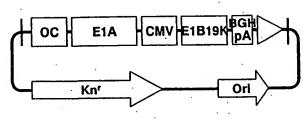








pE2F-E1A-CMV-19K

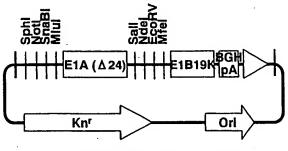


pOC-E1A-CMV-19K

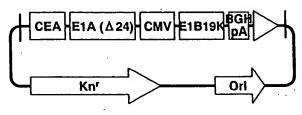
Fig. 6

Applicant(s): Renichilo Rosal et al.
METHOD OF PREPARING A PROLIFERATION-REGULATED
RECOMBINANT ADENOVIRAL VECTOR EFFICIENTLY AND

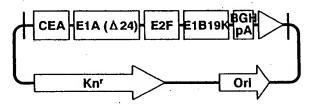
KIT FOR PREPARING THE SAME



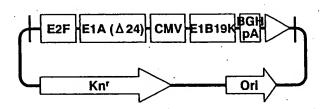
**p**Δ**Pr-E1A**Δ24-Δ**Pr-19K** 



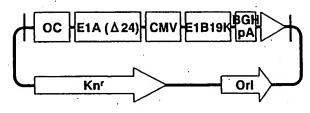
pCEA-E1A \( \Delta 24-CMV-19K \)



pCEA-E1A∆24-E2F-19K



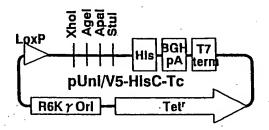
**pE2F-E1A**Δ24-CMV-19K



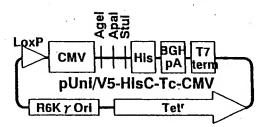
pOC-E1A $\Delta$ 24-CMV-19K

Fig. 7

Vector plasmid having a therapeutic gene-expressing unit



First therapeutic gene-expressing vector plasmid (having an integrated constitutive high-expression promoter)



First therapeutic gene-expressing vector plasmid

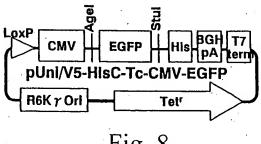
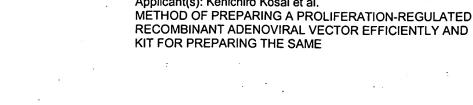
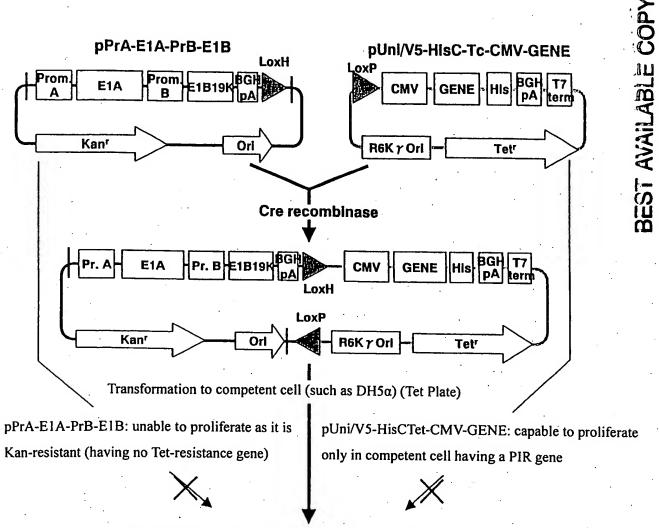


Fig. 8





Only colonies having a recombinant plasmid proliferate.

Fig. 9